

COOPERATIVE NESTING OF MECHANICAL AND ELECTRONIC
STABILIZATION FOR AN AIRBORNE CAMERA SYSTEM

ABSTRACT OF THE DISCLOSURE

A method and system for stabilizing images being taken by a video camera using electromechanical stabilization. The stabilization system performs inter-frame stabilization based on the velocity of a vehicle on which the video camera is mounted and the pan rate of a line-of-sight controller of the video camera. The inter-frame stabilization is performed by a software component by moving a display area (or viewport) within a larger image area. The stabilization system converts an inter-frame stabilization adjustment into a pan rate adjustment so that the line-of-sight controller will keep the desired object within the image area of the camera.